

This listing of allowed claims will replace all prior versions, and listings, of claims in the application:

Listing of Allowed Claims

1. (currently amended) A method for selecting a clone of an ES cell containing a mutation in a gene that is expressed in a test cell comprising:
 - (a) providing cDNA obtained by reverse transcription of mRNA of the test cell;
 - (b) providing a collection of cultured ES cells organized into individual clones, wherein each clone is of an ES cell having a mutation in an exon in its genome, the mutation being in a different exon in cells of different clones;
 - (c) providing an array of different single stranded polynucleotides, the polynucleotides being fragments of exons containing mutations in (b);
 - (d) exposing the cDNA to the array under conditions permitting hybridization of polynucleotides in the array to nucleic acids;
 - (e) detecting hybridization of cDNA to a polynucleotide on the array; and,
 - (f) selecting a clone in the collection from which a hybridizing polynucleotide detected at ~~(e)~~ (e) is an exon fragment.
2. (allowed) The method of claim 1, wherein the ES cells are murine.
3. (allowed) The method of claim 1, wherein mutations in the ES cells are as a result of introducing an exon trap vector into ES cells.
4. (allowed) The method of claim 1, wherein the array is a nucleic acid microarray.
5. (allowed) The method of claim 4, wherein the microarray comprises at least 500 different polynucleotides on a solid support surface.
6. (allowed) The method of claim 5, wherein the microarray comprises at least about 1,000 different polynucleotides.
7. (allowed) The method of claim 1, wherein the cDNA is labelled to facilitate detection at (e).

8. (allowed) The method of claim 7, wherein the label is fluorescent or radioactive.
9. (allowed) The method of claim 1, wherein selecting a clone comprises physically segregating a sample of ES cells from a selected clone.